

FIG. 1A

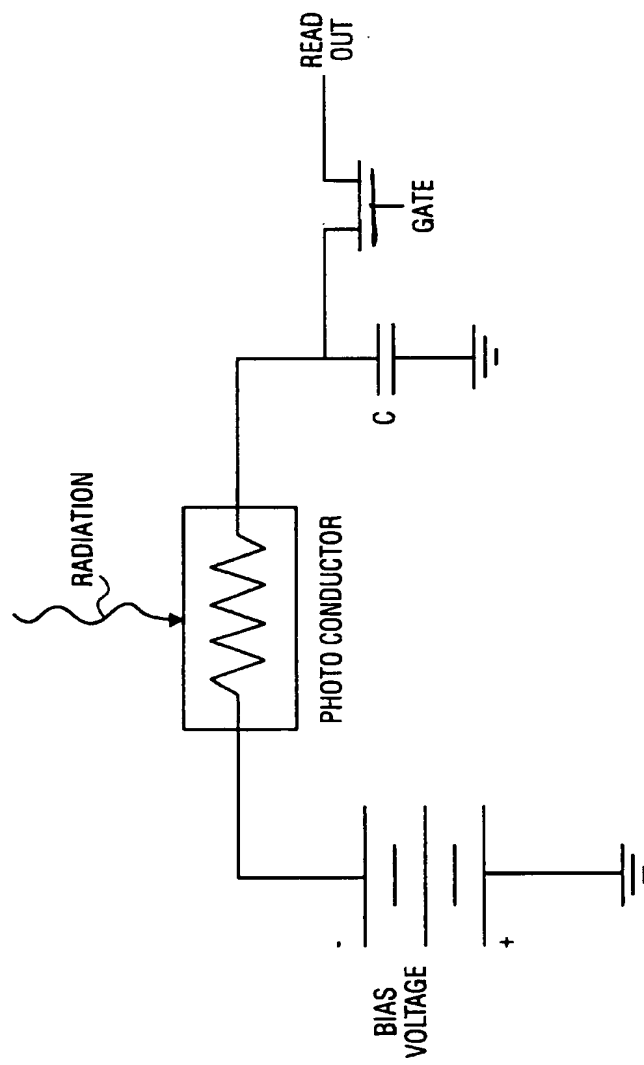


FIG. 1B

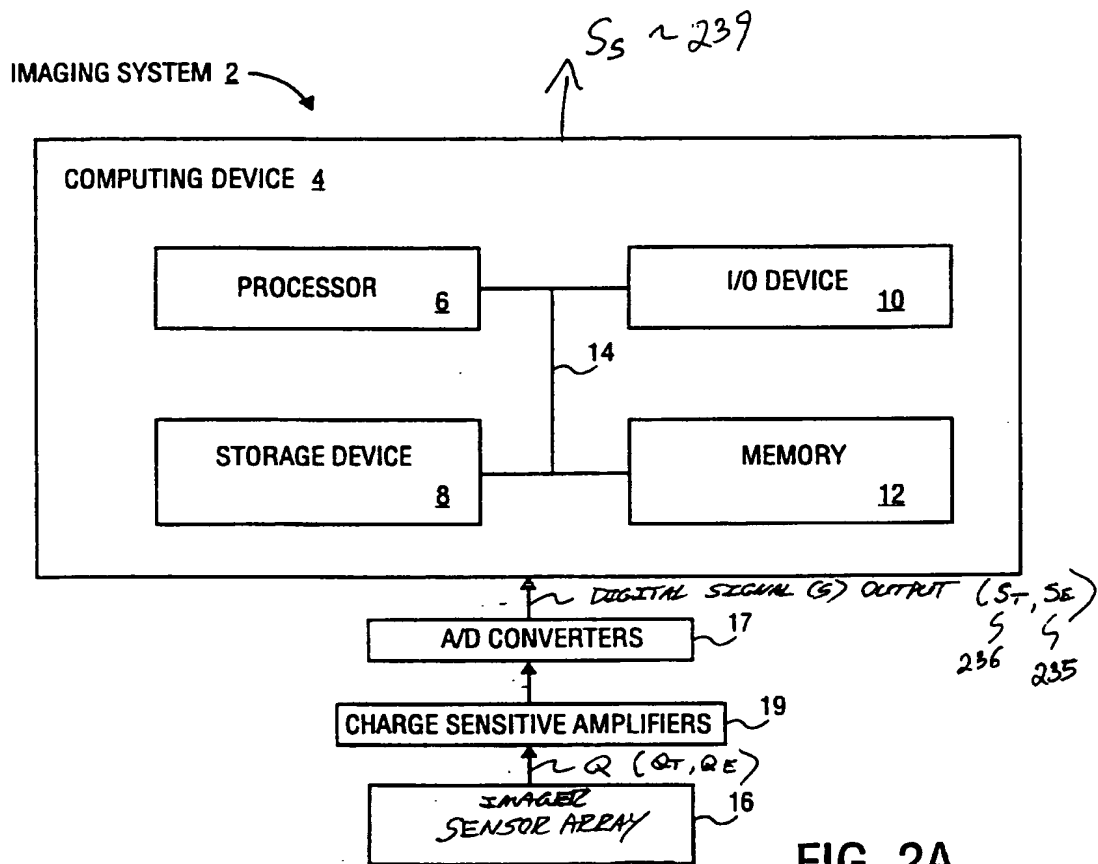


FIG. 2A

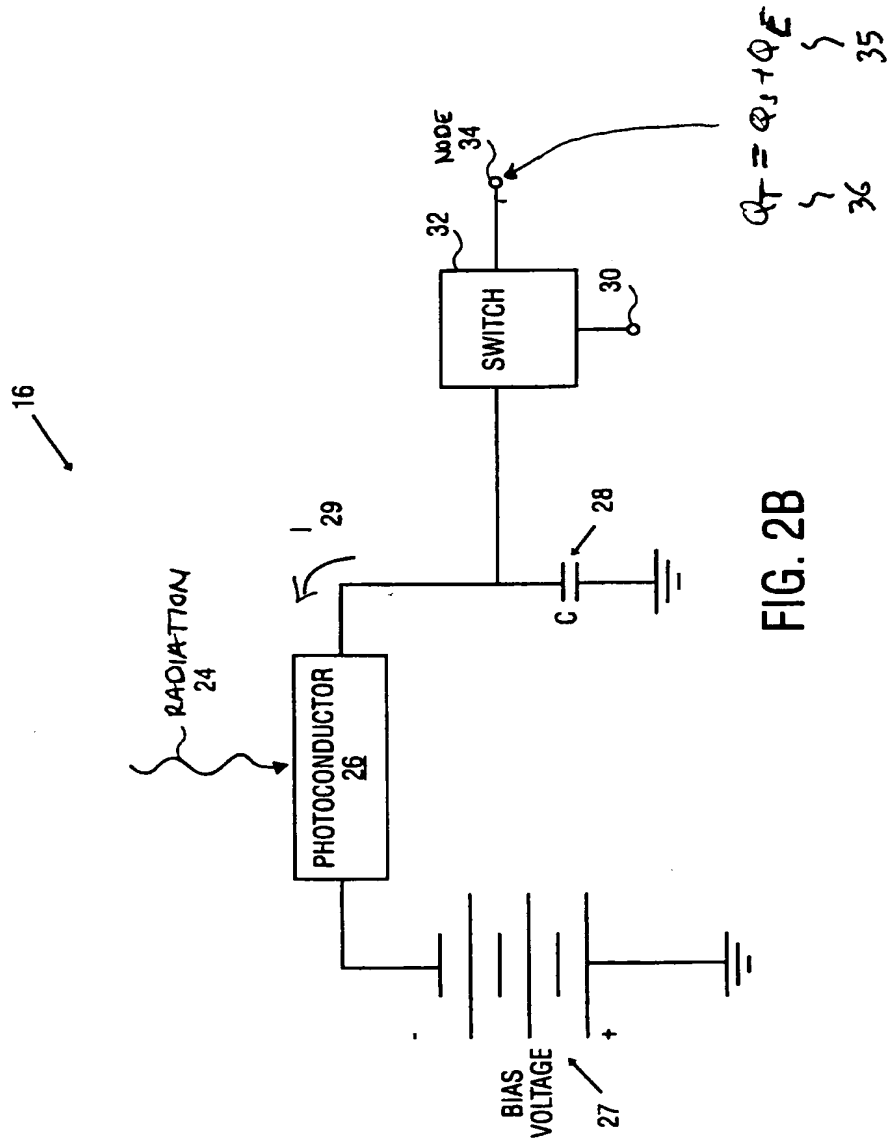


FIG. 2B

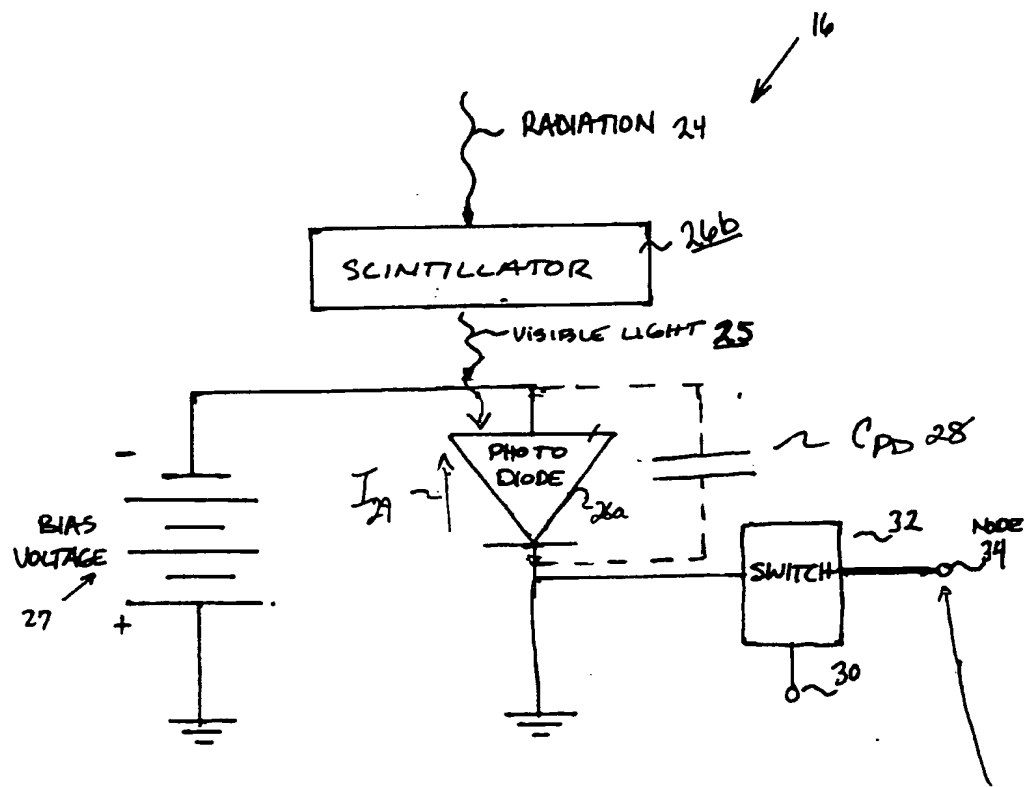


FIG. 2C -

$$Q_T = Q_{ST} Q_E$$

$\begin{matrix} 36 \\ \downarrow \end{matrix}$
 $\begin{matrix} 35 \\ \downarrow \end{matrix}$

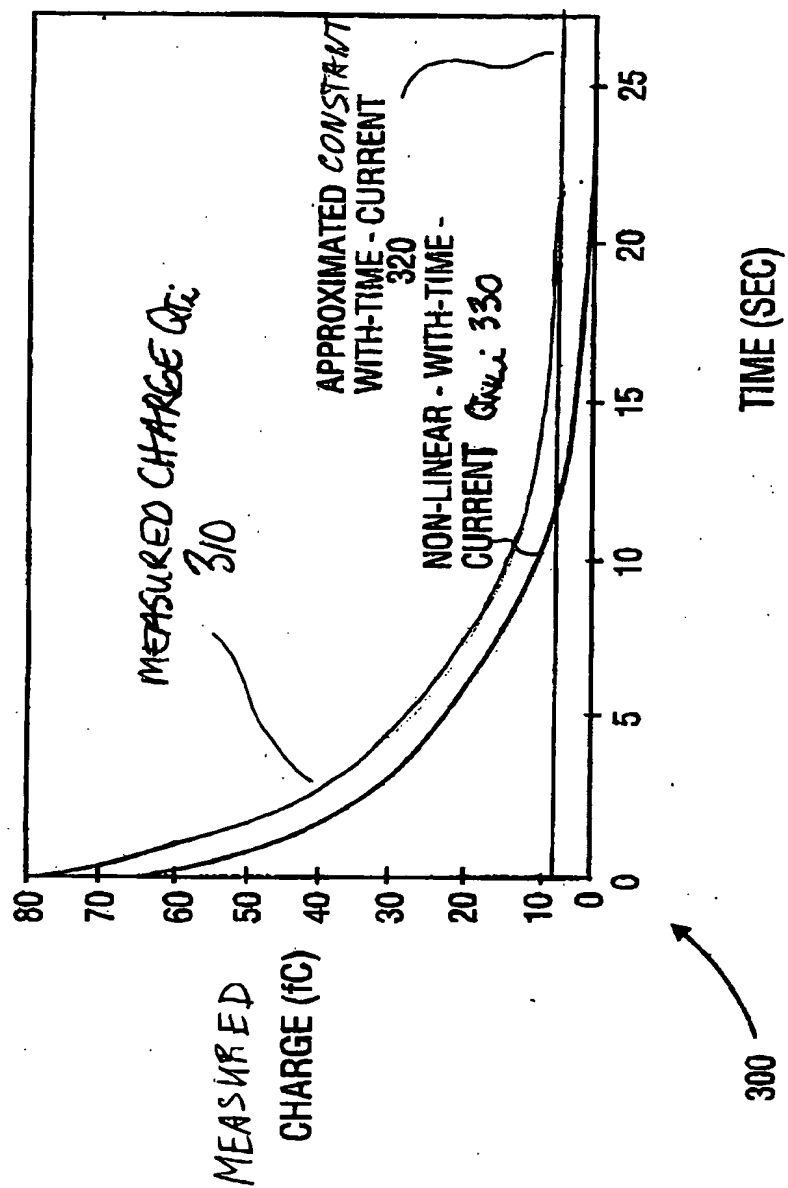


FIG. 3

$$I_E(t) = \frac{K}{t}, \quad Q_E(t) = \int_t^{t+T_i} I_E(t) dt$$

INTEGRATION
TIME

FIG. 4

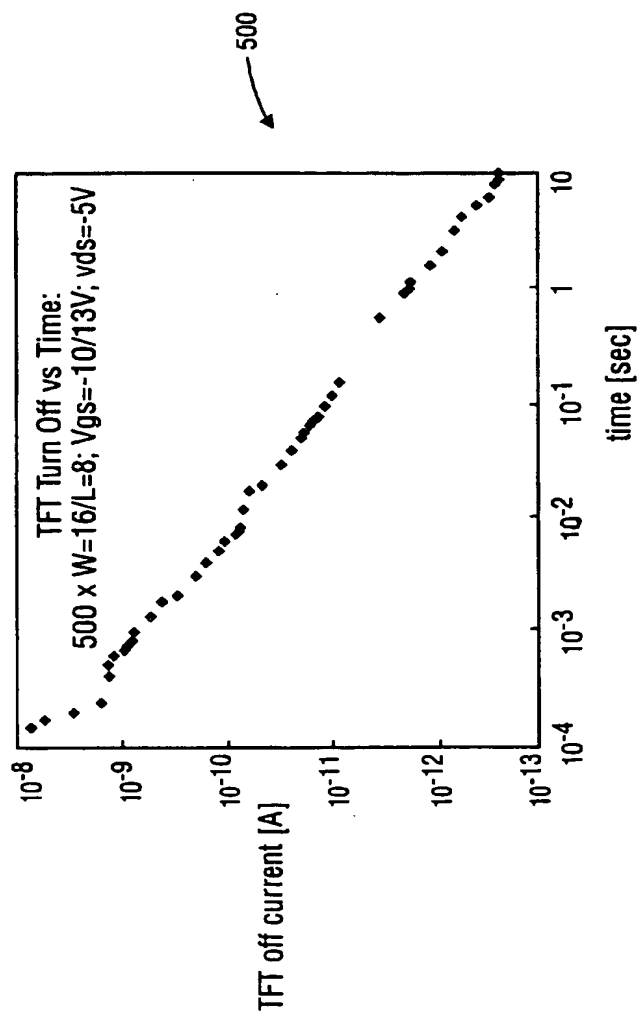


FIG. 5

$$\text{INTEGRATION TIME (t)} = \frac{1}{\text{FRAME RATE}}$$

FRAME RATE (FPS)	INTEGRATION TIME (SEC)
0.1	10
1	1
30	0.033
100	0.01

FIG. 6

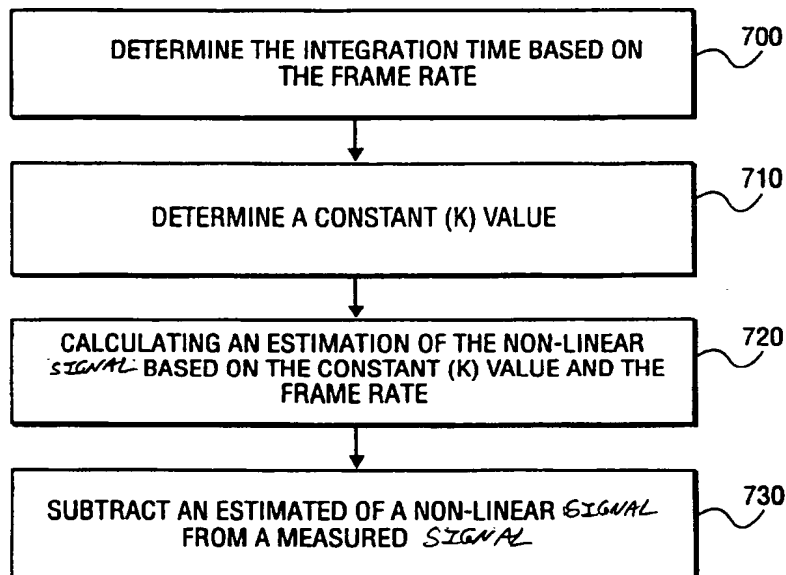


FIG. 7

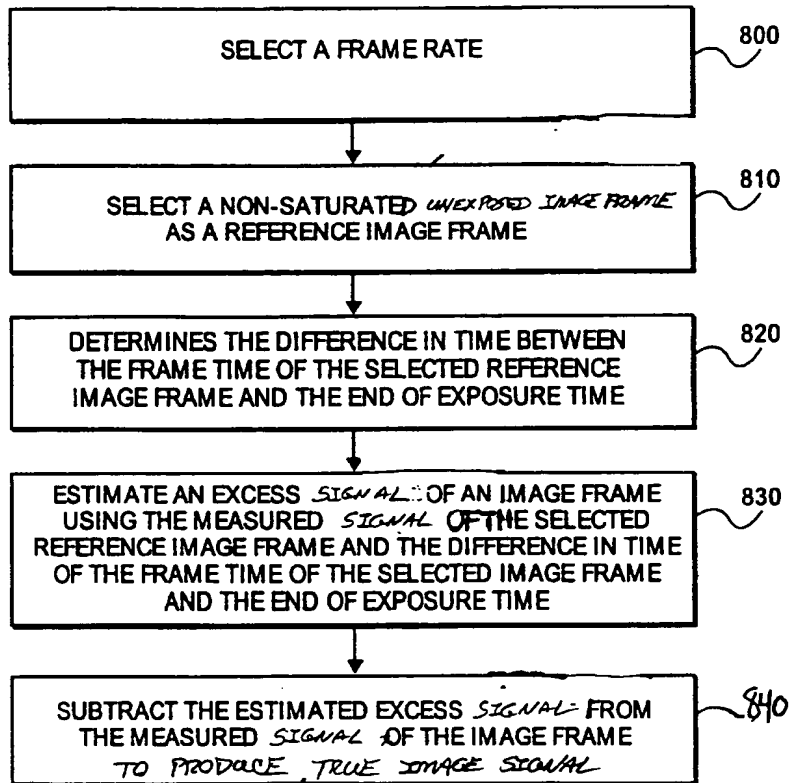


FIG. 8

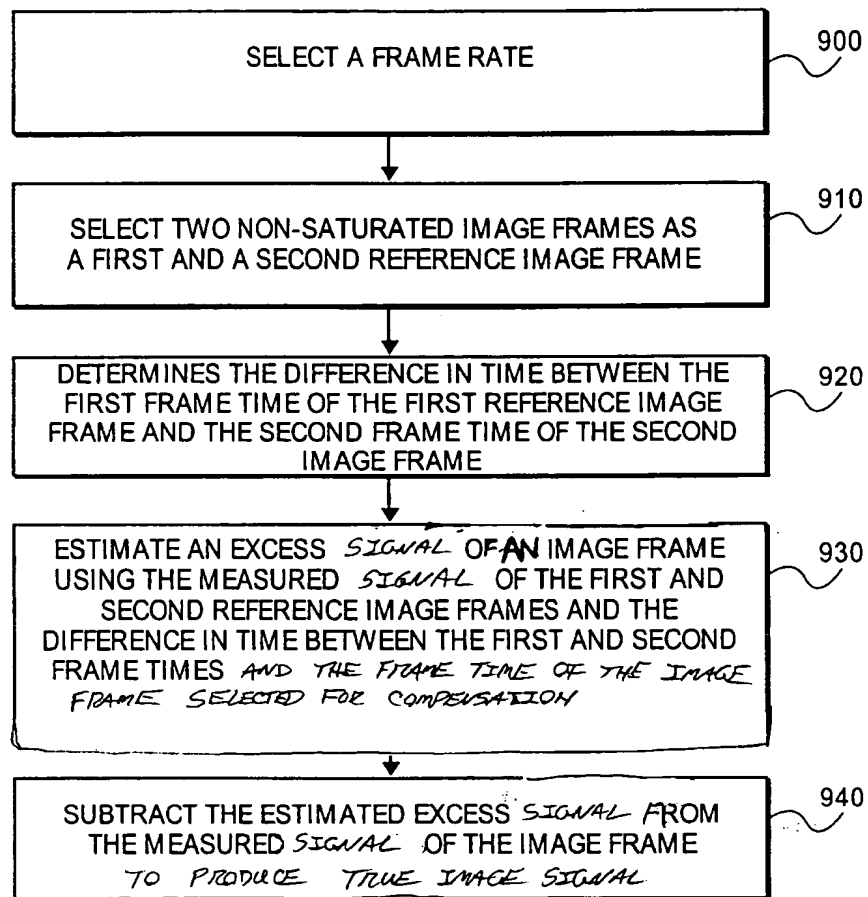
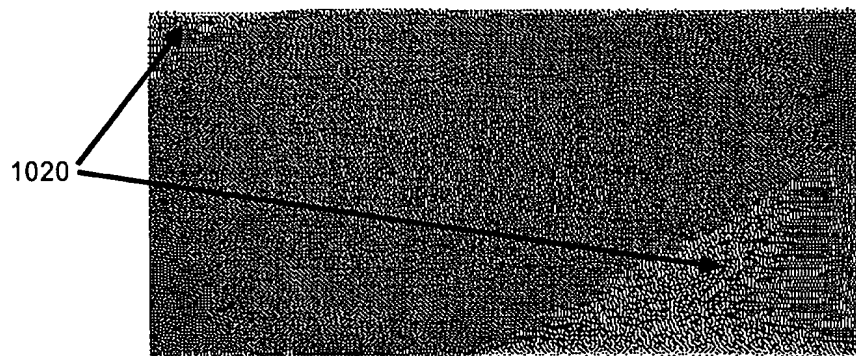
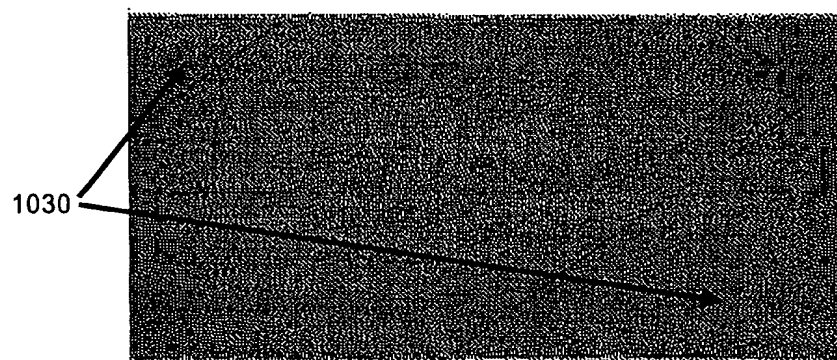


FIG. 9



UNCOMPENSATED
FRAME F 1000

FIG. 10A



COMPENSATED
FRAME F 1010

FIG. 10B

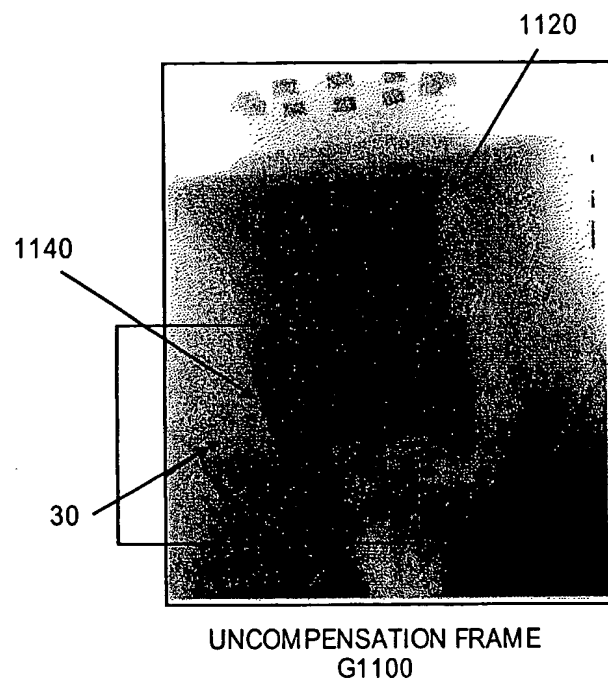


FIG. 11A

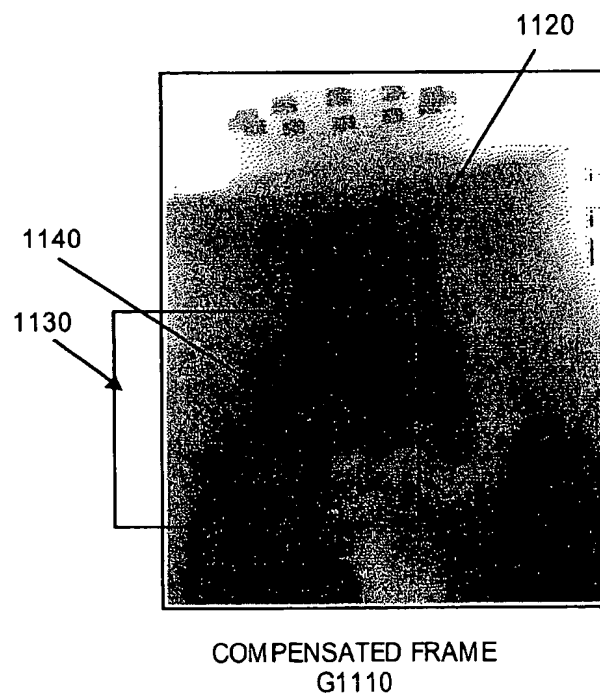


FIG. 11B

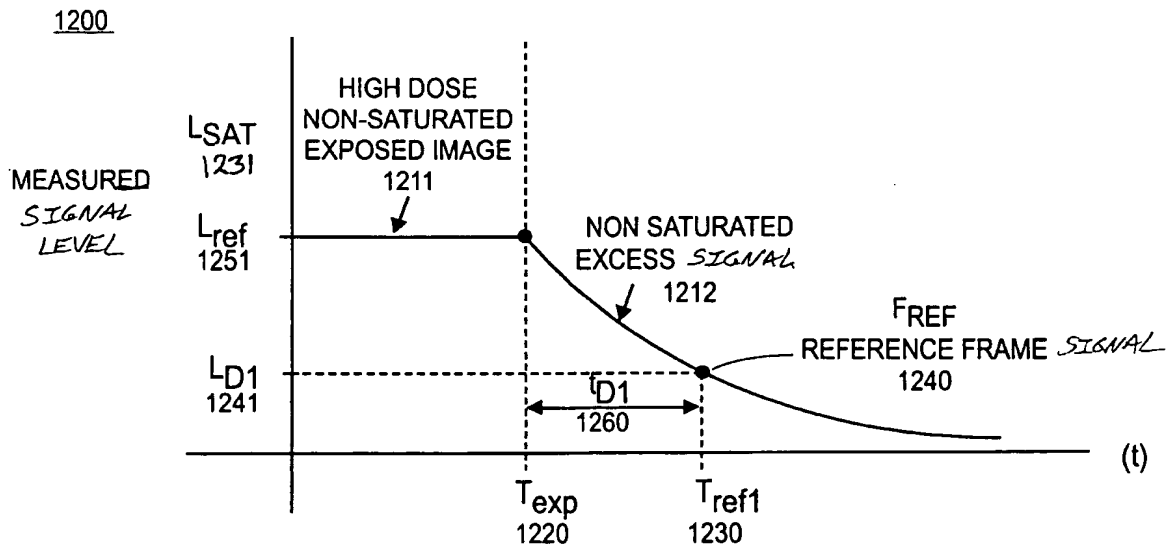


FIG. 12

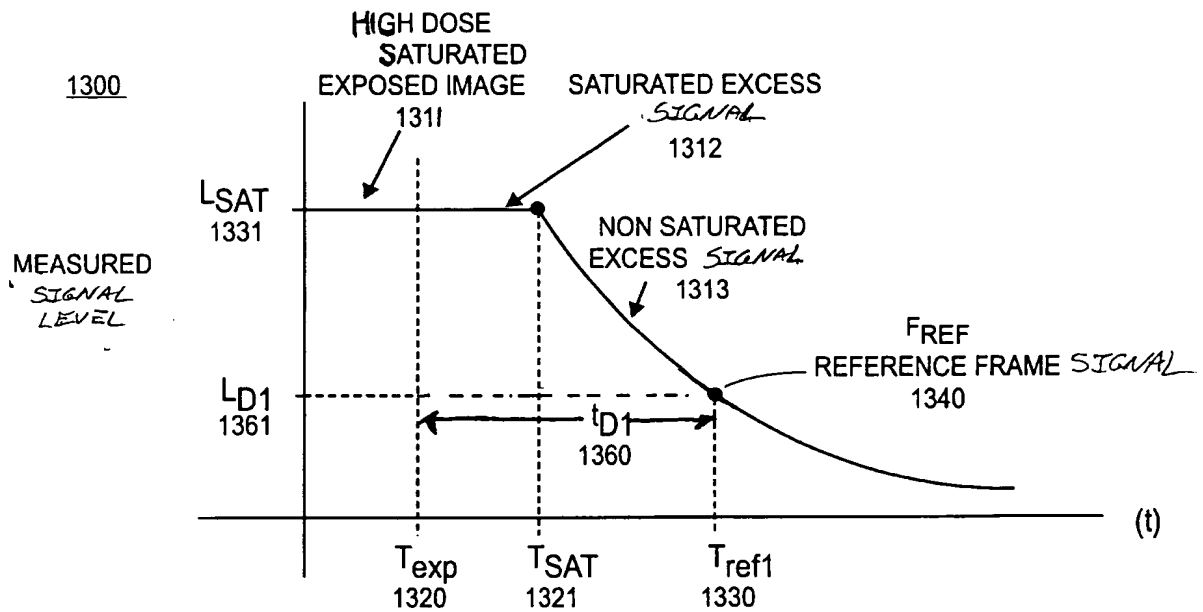


FIG. 13

FIG. 15

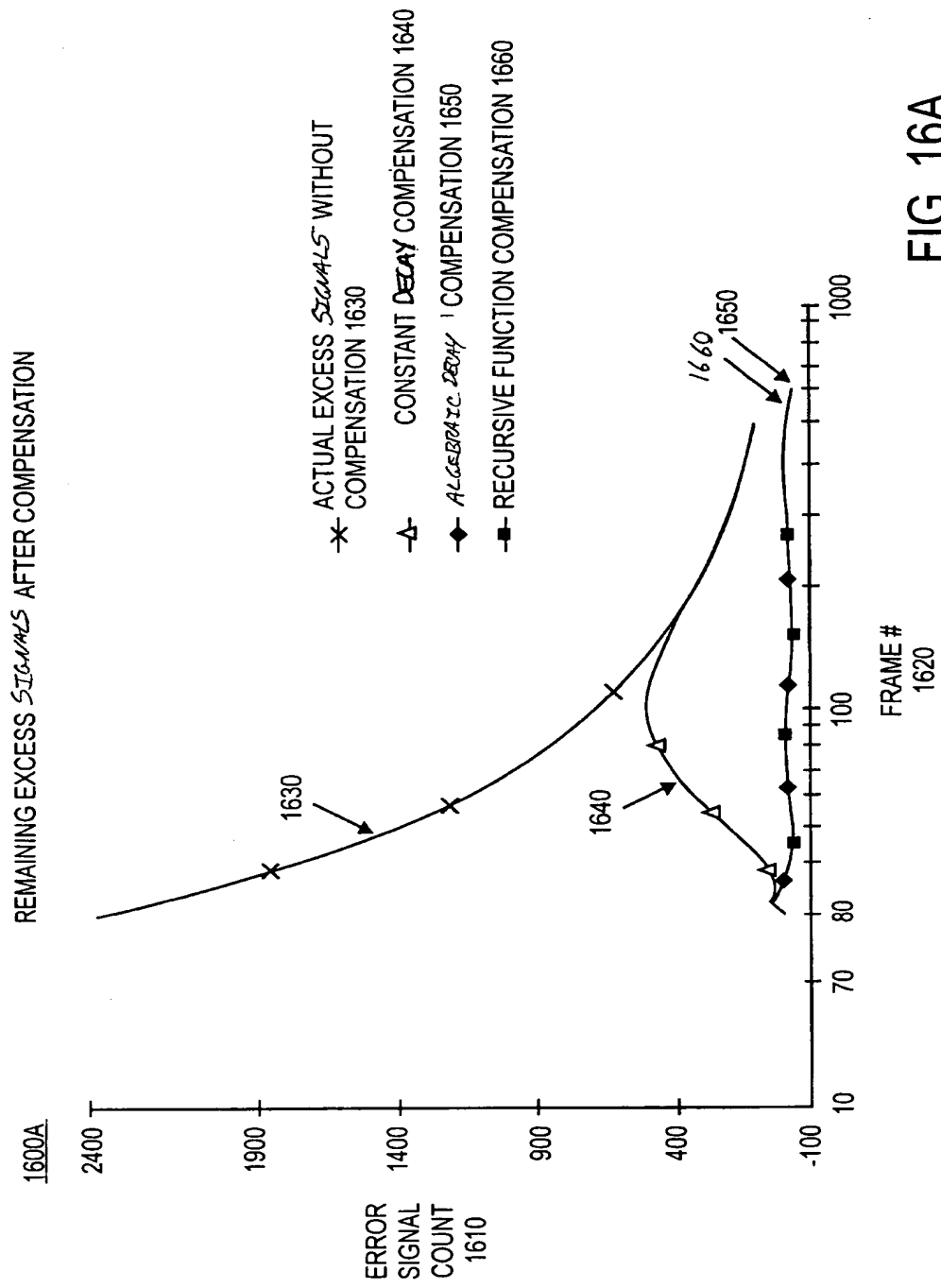


FIG. 16A

REMAINING EXCESS SIGNAL AFTER COMPENSATION

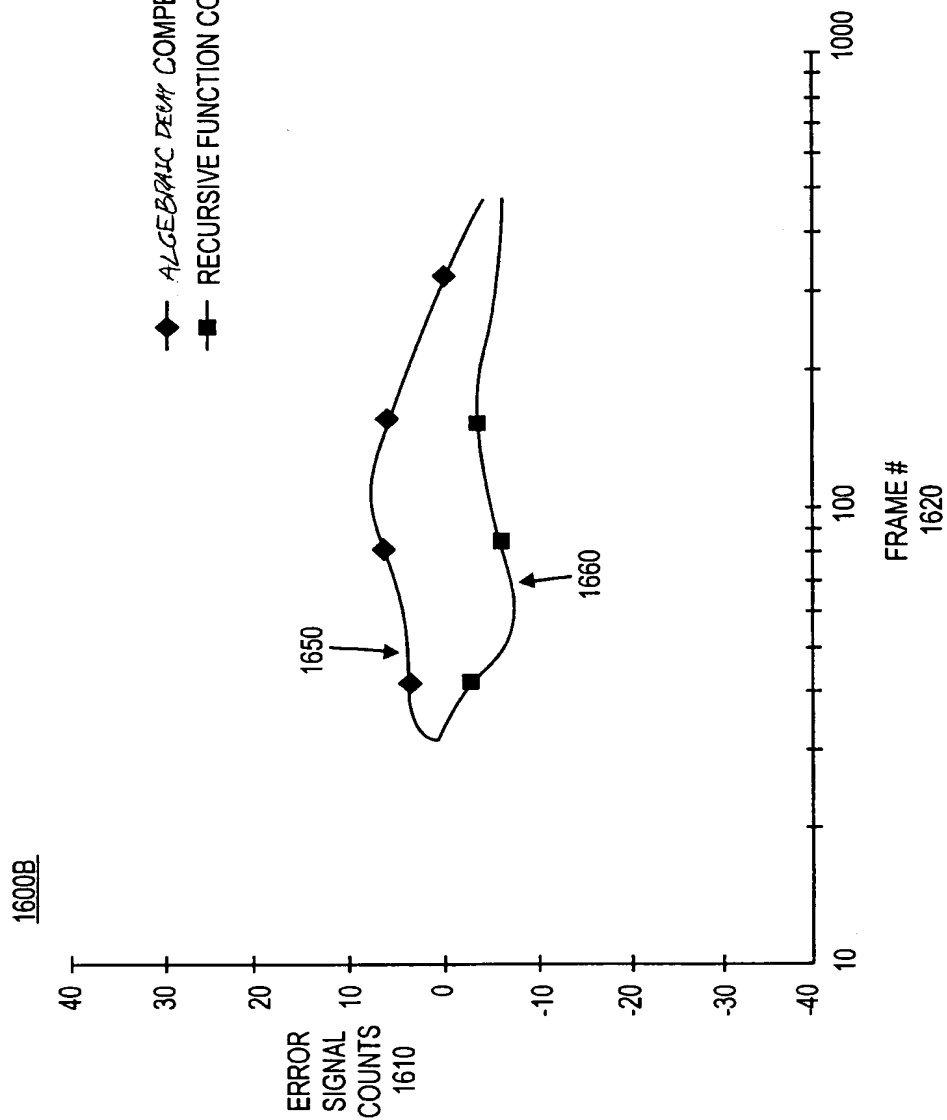


FIG. 16B